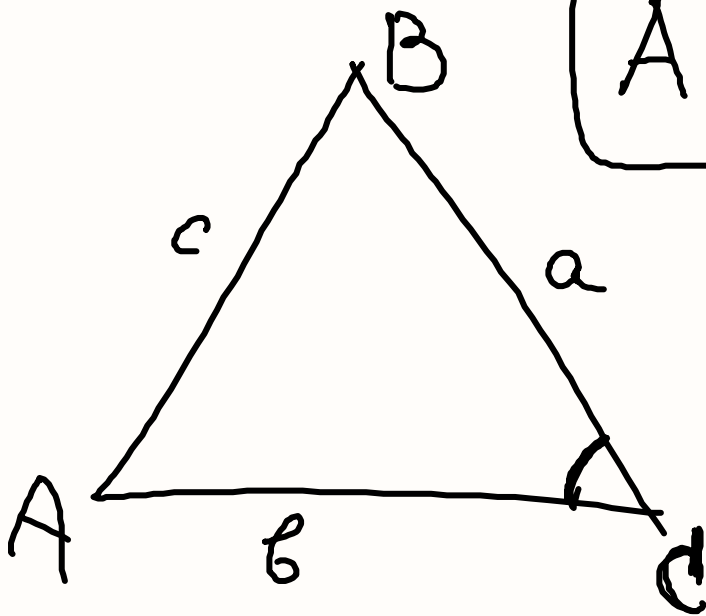


SIDE-ANGLE-SIDE (SAS)
TRIANGLE AREA CONJECTURE C-102
p. 635



$$A_{\Delta} = \frac{1}{2} a \cdot b \cdot \sin C$$

$$A_{\Delta} = \frac{1}{2} a c \cdot \sin B$$

$$A_{\Delta} = \frac{1}{2} b c \cdot \sin A$$

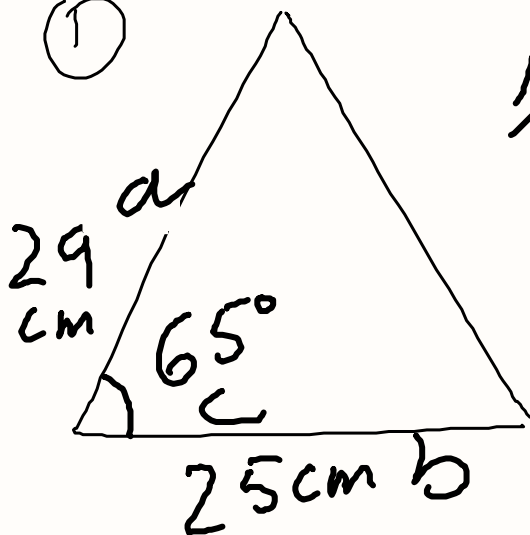
THE LAW OF SINES C-103 p. 635

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$\frac{\sin A}{a} = \frac{\sin B}{b} \qquad \frac{\sin A}{a} = \frac{\sin C}{c}$$

#1, 2 p. 637

①



$$\frac{1}{2} a \cdot b \cdot \sin C$$

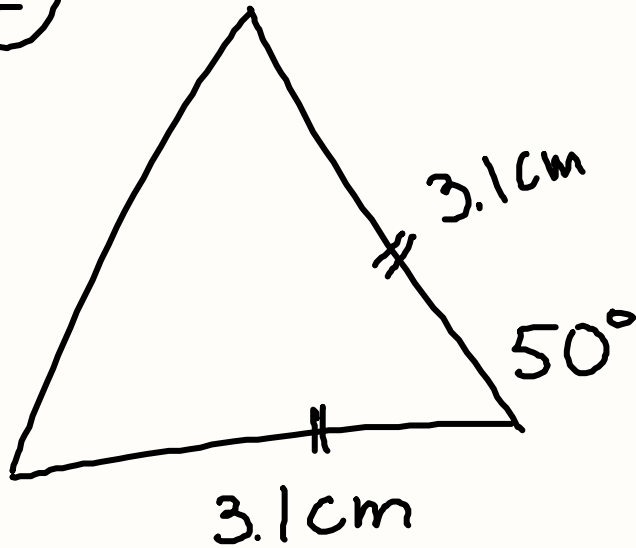
$$\frac{1}{2} 25 \cdot b \cdot \sin C$$

$$12.5 \times 29 \times \sin 65$$

$$12.5 \times 29 \times .91$$

$$\text{Area} = 330$$

(2)



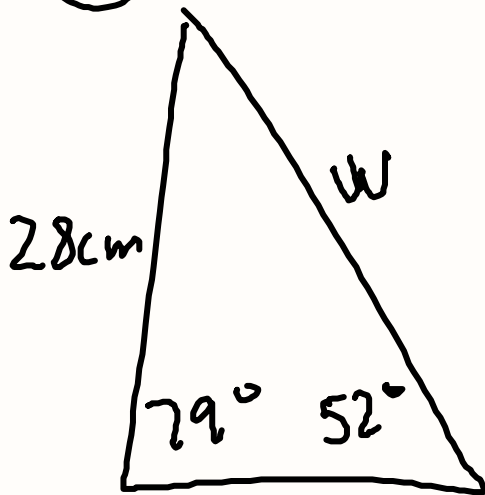
$$A = \frac{1}{2} \cdot a \cdot b \cdot \sin C$$

$$A = \frac{1}{2} \cdot 3.1 \cdot 3.1 \cdot \sin 50^\circ$$

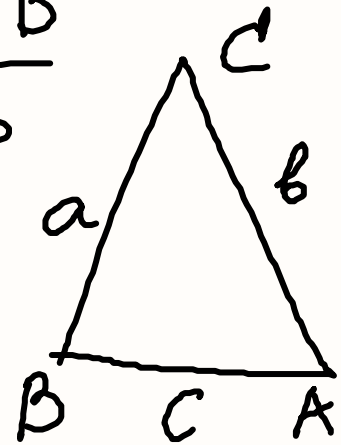
$$A = \frac{1}{2} \cdot 3.1 \cdot 3.1 \cdot 0.8$$

$$A = 4 \text{ cm}^2$$

(5)



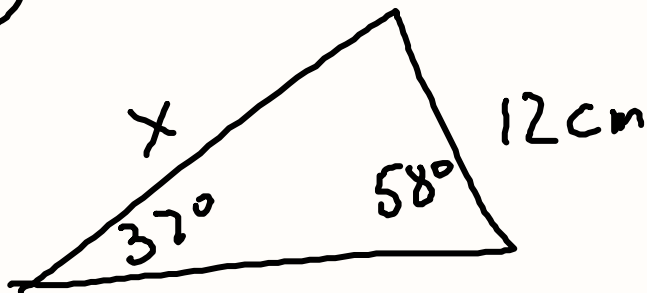
$$\frac{\sin A}{a} = \frac{\sin B}{b}$$



$$\frac{\sin 52^\circ}{28} = \frac{\sin 79^\circ}{w} \quad \frac{0.788}{28} = \frac{0.98}{w}$$

$$w = \frac{28 \cdot 0.98}{0.78} = 35 \text{ cm}$$

⑥



HOME
7.8
P. 637-
638